

# Engineering Change Notification

Product Change of NPT/INCH Fittings QSK (L)

# FESTO



## Engineering Change Notification

**Project No**  
238 175

**Project Title**  
QS NPT/INCH Fittings

**Date**  
August 4th, 2021

### Reason of change

Realisation of a uniform product design for the complete QS Fitting series

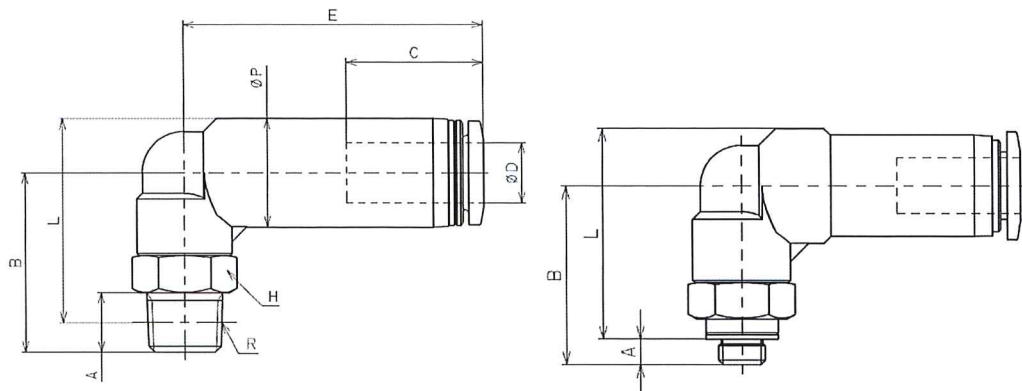
### Technical changes

The design modification is following to the already completed change of metric fittings (for QS and QS-VO).

There are different dimension for the housing and length of thread connector (optimized on small/compact dimension) for these fittings.

The product change has no impact on the technical data.

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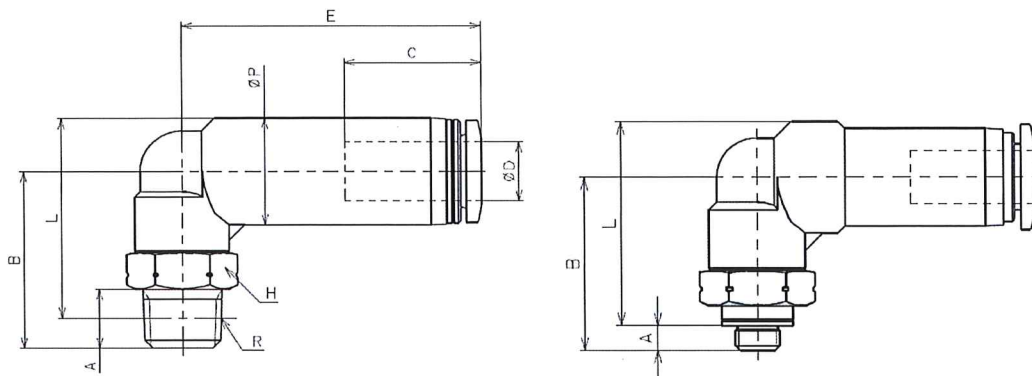


### Previous Version

| FESTO       | Part No | Tube O.D. | Release ring |     |      | R      | A  | B    | L    | ØP   | C    | E    | Hex. |
|-------------|---------|-----------|--------------|-----|------|--------|----|------|------|------|------|------|------|
|             |         | ØD        | ØZ           | X   | Y    |        |    |      |      |      |      |      | H    |
| QSKL-M5-4   | 153294  | 4         | —            | 7.8 | 9.8  | M5×0.8 | 3  | 20.3 | 22.3 | 10   | 12.7 | 30.3 | 10   |
| QSKL-1/8-4  | 153429  | 4         | —            | 7.8 | 9.8  | R1/8   | 8  | 23.3 | 24.3 | 10   | 12.7 | 30.3 | 10   |
| QSKL-M5-6   | 153295  | 6         | —            | 9.8 | 11.8 | M5×0.8 | 3  | 22   | 25.3 | 12.5 | 13.7 | 30.4 | 12   |
| QSKL-1/8-6  | 153430  | 6         | —            | 9.8 | 11.8 | R1/8   | 8  | 25   | 27.3 | 12.5 | 13.7 | 30.4 | 12   |
| QSKL-1/4-6  | 153431  | 6         | —            | 9.8 | 11.8 | R1/4   | 11 | 28   | 28.2 | 12.5 | 13.7 | 30.4 | 14   |
| QSKL-1/8-8  | 153432  | 8         | 13.8         | —   | —    | R1/8   | 8  | 28   | 31.3 | 14.5 | 18.3 | 43   | 14   |
| QSKL-1/4-8  | 153433  | 8         | 13.8         | —   | —    | R1/4   | 11 | 31   | 32.2 | 14.5 | 18.3 | 43   | 14   |
| QSKL-3/8-8  | 153434  | 8         | 13.8         | —   | —    | R3/8   | 12 | 32.8 | 33.7 | 14.5 | 18.3 | 43   | 17   |
| QSKL-1/4-10 | 153435  | 10        | 16.8         | —   | —    | R1/4   | 11 | 36   | 38.7 | 17.5 | 20.7 | 49.3 | 17   |
| QSKL-3/8-10 | 153436  | 10        | 16.8         | —   | —    | R3/8   | 12 | 37   | 39.4 | 17.5 | 20.7 | 49.3 | 17   |
| QSKL-3/8-12 | 153437  | 12        | 19.8         | —   | —    | R3/8   | 12 | 39   | 43.2 | 21   | 23.1 | 57.1 | 21   |
| QSKL-1/2-12 | 153438  | 12        | 19.8         | —   | —    | R1/2   | 15 | 42   | 44.3 | 21   | 23.1 | 57.1 | 21   |

### Future Version

| FESTO       | Part No | Tube O.D. | Release ring |     |      | R      | A   | B    | L    | ØP   | C    | E    | Hex. |
|-------------|---------|-----------|--------------|-----|------|--------|-----|------|------|------|------|------|------|
|             |         | ØD        | ØZ           | X   | Y    |        |     |      |      |      |      |      | H    |
| QSMKL-M5-4  | 153294  | 4         | —            | 7.8 | 9.8  | M5×0.8 | 2.8 | 16   | 18   | 9.5  | 12.8 | 27.6 | 8    |
| QSMKL-1/8-4 | 153429  | 4         | —            | 7.8 | 9.8  | R1/8   | 8   | 22   | 22.8 | 9.5  | 12.8 | 28.4 | 10   |
| QSMKL-M5-6  | 153295  | 6         | —            | 9.8 | 11.8 | M5×0.8 | 2.8 | 19.5 | 23   | 12.5 | 13.6 | 30.4 | 10   |
| QSMKL-1/8-6 | 153430  | 6         | —            | 9.8 | 11.8 | R1/8   | 8   | 22.5 | 24.8 | 12.5 | 13.6 | 30.4 | 10   |
| QSMKL-1/4-6 | 153431  | 6         | —            | 9.8 | 11.8 | R1/4   | 11  | 28   | 28.2 | 12.5 | 13.6 | 31.8 | 14   |
| QSKL-1/8-8  | 153432  | 8         | 13.8         | —   | —    | R1/8   | 8   | 24   | 27.3 | 14.5 | 18.2 | 39.7 | 12   |
| QSKL-1/4-8  | 153433  | 8         | 13.8         | —   | —    | R1/4   | 11  | 28   | 29.2 | 14.5 | 18.2 | 40.7 | 14   |
| QSKL-3/8-8  | 153434  | 8         | 13.8         | —   | —    | R3/8   | 12  | 31   | 31.9 | 14.5 | 18.2 | 42   | 17   |
| QSKL-1/4-10 | 153435  | 10        | 16.8         | —   | —    | R1/4   | 11  | 28.5 | 31.2 | 17.5 | 20.2 | 45.6 | 14   |
| QSKL-3/8-10 | 153436  | 10        | 16.8         | —   | —    | R3/8   | 12  | 32   | 34.4 | 17.5 | 20.2 | 46   | 17   |
| QSKL-3/8-12 | 153437  | 12        | 19.8         | —   | —    | R3/8   | 12  | 32.5 | 36.7 | 21   | 23.2 | 53.7 | 17   |
| QSKL-1/2-12 | 153438  | 12        | 19.8         | —   | —    | R1/2   | 15  | 36.5 | 38.8 | 21   | 23.2 | 54.2 | 21   |

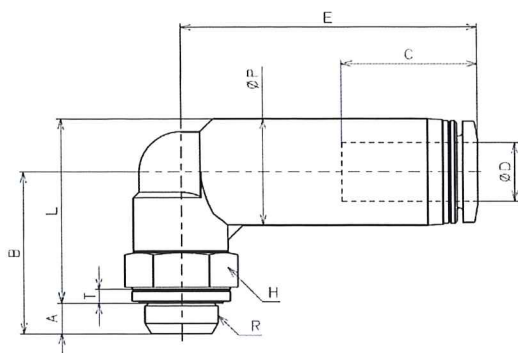


## Previous Version

|                     |         | Tube O.D. | Release ring |   |   | R           | A  | B  | L    | ØP   | C    | E    | Hex.  |
|---------------------|---------|-----------|--------------|---|---|-------------|----|----|------|------|------|------|-------|
| FESTO               | Part No | Ø D       | Ø Z          | X | Y |             |    |    |      |      |      |      | inch  |
| QSKL-10-32UNF-1/4-U | 190740  | 1/4       | 11.8         | — | — | No.10-32UNF | 3  | 22 | 25.3 | 12.5 | 16.7 | 33.4 | 1/2   |
| QSKL-1/4-1/4-U      | 190745  | 1/4       | 11.8         | — | — | 1/4-18NPT   | 11 | 28 | 28.5 | 12.5 | 16.7 | 33.4 | 9/16  |
| QSKL-1/4-3/8-U      | 190747  | 3/8       | 16.8         | — | — | 1/4-18NPT   | 11 | 36 | 39   | 17.5 | 20.7 | 49.3 | 11/16 |

## Future Version

|                      |         | Tube O.D. | Release ring |      |     | R           | A   | B    | L    | ØP   | C    | E    | Hex. |
|----------------------|---------|-----------|--------------|------|-----|-------------|-----|------|------|------|------|------|------|
| FESTO                | Part No | Ø D       | Ø Z          | X    | Y   |             |     |      |      |      |      |      | inch |
| QSMKL-10-32UNF-1/4-U | 190740  | 1/4       | —            | 11.8 | 9.8 | No.10-32UNF | 2.8 | 19.5 | 23   | 12.5 | 13.4 | 30.6 | 7/16 |
| QSMKL-1/4-1/4-U      | 190745  | 1/4       | —            | 11.8 | 9.8 | 1/4-18NPT   | 11  | 28   | 28.5 | 12.5 | 13.4 | 32   | 9/16 |
| QSKL-1/4-3/8-U       | 190747  | 3/8       | 16.8         | —    | —   | 1/4-18NPT   | 11  | 28.5 | 31.5 | 17.5 | 20.2 | 45.6 | 9/16 |

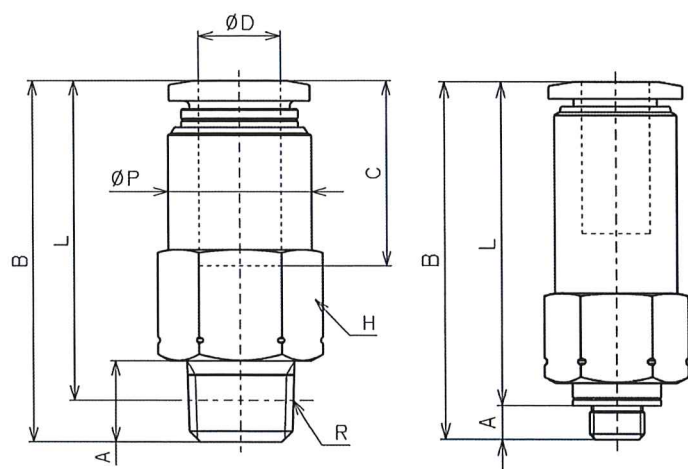


## Previous Version

|              |         | Tube O.D. | Release ring |      |     |       | R   | A    | B    | L   | T    | $\phi P$ | C    | E    | Hex. |
|--------------|---------|-----------|--------------|------|-----|-------|-----|------|------|-----|------|----------|------|------|------|
| FESTO        | Part No | $\phi D$  | $\phi Z$     | X    | Y   |       |     |      |      |     |      |          |      |      |      |
| QSKL-G1/8-4  | 186304  | 4         | -            | 9.8  | 7.8 | G1/8A | 5.1 | 23.3 | 23.2 | 1.9 | 10   | 12.7     | 30.3 | 13   |      |
| QSKL-G1/8-6  | 186305  | 6         | -            | 11.8 | 9.8 | G1/8A | 5.1 | 24   | 25.2 | 1.9 | 12.5 | 13.7     | 30.4 | 13   |      |
| QSKL-G1/4-6  | 186306  | 6         | -            | 11.8 | 9.8 | G1/4A | 5.6 | 25.5 | 26.2 | 1.9 | 12.5 | 13.7     | 30.4 | 17   |      |
| QSKL-G1/8-8  | 186307  | 8         | 13.8         | -    | -   | G1/8A | 5.1 | 27   | 29.2 | 1.9 | 14.5 | 18.3     | 43   | 14   |      |
| QSKL-G1/4-8  | 186308  | 8         | 13.8         | -    | -   | G1/4A | 5.6 | 28.5 | 30.2 | 1.9 | 14.5 | 18.3     | 43   | 17   |      |
| QSKL-G3/8-8  | 186309  | 8         | 13.8         | -    | -   | G3/8A | 6.6 | 30   | 30.7 | 2.4 | 14.5 | 18.3     | 43   | 19   |      |
| QSKL-G1/4-10 | 186310  | 10        | 16.8         | -    | -   | G1/4A | 5.6 | 32.5 | 35.7 | 1.9 | 17.5 | 20.7     | 49.3 | 17   |      |
| QSKL-G3/8-10 | 186311  | 10        | 16.8         | -    | -   | G3/8A | 6.6 | 34   | 36.2 | 2.4 | 17.5 | 20.7     | 49.3 | 19   |      |
| QSKL-G3/8-12 | 186312  | 12        | 19.8         | -    | -   | G3/8A | 6.6 | 36   | 39.9 | 2.4 | 21   | 23.1     | 57.1 | 21   |      |
| QSKL-G1/2-12 | 186313  | 12        | 19.8         | -    | -   | G1/2A | 7.6 | 39   | 41.9 | 2.4 | 21   | 23.1     | 57.1 | 23.8 |      |

## Future Version

|              |         | Tube O.D. | Release ring |      |     |       | R   | A    | B    | L   | T    | $\phi P$ | C    | E  | Hex. |
|--------------|---------|-----------|--------------|------|-----|-------|-----|------|------|-----|------|----------|------|----|------|
| FESTO        | Part No | $\phi D$  | $\phi Z$     | X    | Y   |       |     |      |      |     |      |          |      |    |      |
| QSMKL-G1/8-4 | 186304  | 4         | -            | 9.8  | 7.8 | G1/8A | 4.2 | 21.1 | 21.7 | 1.9 | 9.5  | 12.8     | 28.4 | 13 |      |
| QSMKL-G1/8-6 | 186305  | 6         | -            | 11.8 | 9.8 | G1/8A | 4.2 | 21.6 | 23.7 | 1.9 | 12.5 | 13.6     | 30.4 | 13 |      |
| QSMKL-G1/4-6 | 186306  | 6         | -            | 11.8 | 9.8 | G1/4A | 4.8 | 24.7 | 26.2 | 1.9 | 12.5 | 13.6     | 31.8 | 17 |      |
| QSKL-G1/8-8  | 186307  | 8         | 13.8         | -    | -   | G1/8A | 4.2 | 22.1 | 25.2 | 1.9 | 14.5 | 18.2     | 39.7 | 13 |      |
| QSKL-G1/4-8  | 186308  | 8         | 13.8         | -    | -   | G1/4A | 4.8 | 24.7 | 27.2 | 1.9 | 14.5 | 18.2     | 40.7 | 17 |      |
| QSKL-G3/8-8  | 186309  | 8         | 13.8         | -    | -   | G3/8A | 5.8 | 27.2 | 28.7 | 2.4 | 14.5 | 18.2     | 42   | 19 |      |
| QSKL-G1/4-10 | 186310  | 10        | 16.8         | -    | -   | G1/4A | 4.3 | 25.2 | 29.2 | 1.9 | 17.5 | 20.2     | 45.6 | 17 |      |
| QSKL-G3/8-10 | 186311  | 10        | 16.8         | -    | -   | G3/8A | 5.8 | 28.2 | 31.2 | 2.4 | 17.5 | 20.2     | 46   | 19 |      |
| QSKL-G3/8-12 | 186312  | 12        | 19.8         | -    | -   | G3/8A | 5.8 | 28.7 | 33.4 | 2.4 | 21   | 23.2     | 53.7 | 19 |      |
| QSKL-G1/2-12 | 186313  | 12        | 19.8         | -    | -   | G1/2A | 6.8 | 32.2 | 35.9 | 2.4 | 21   | 23.2     | 54.2 | 24 |      |

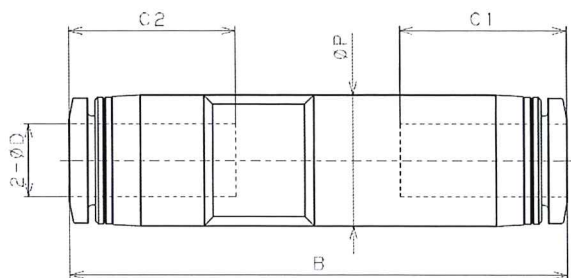


### Previous Version

|                    |         | Tube O.D. | Release ring |   |   |             | R  | A    | B    | L    | ØP   | C     | Hex. |
|--------------------|---------|-----------|--------------|---|---|-------------|----|------|------|------|------|-------|------|
| FESTO              | Part No | ØD        | ØZ           | X | Y |             |    |      |      |      |      |       | inch |
| QSK-10-32UNF-1/4-U | 190707  | 1/4       | 11.8         | — | — | No.10-32UNF | 3  | 35   | 32   | 11.8 | 16.7 | 1/2   |      |
| QSK-1/8-1/4-U      | 190710  | 1/4       | 11.8         | — | — | 1/8-27NPT   | 8  | 30.2 | 26   | 11.8 | 16.7 | 1/2   |      |
| QSK-1/4-1/4-U      | 190712  | 1/4       | 11.8         | — | — | 1/4-18NPT   | 11 | 30.2 | 24.4 | 12   | 16.7 | 9/16  |      |
| QSK-1/4-3/8-U      | 190714  | 3/8       | 16.8         | — | — | 1/4-18NPT   | 11 | 38.3 | 32.5 | 17   | 20.7 | 11/16 |      |
| QSK-3/8-3/8-U      | 190716  | 3/8       | 16.8         | — | — | 3/8-18NPT   | 12 | 39.8 | 33.7 | 17   | 20.7 | 11/16 |      |

### Future Version

|                     |         | Tube O.D. | Release ring |      |     |             | R  | A    | B    | L    | ØP   | C     | Hex. |
|---------------------|---------|-----------|--------------|------|-----|-------------|----|------|------|------|------|-------|------|
| FESTO               | Part No | ØD        | ØZ           | X    | Y   |             |    |      |      |      |      |       | inch |
| QSMK-10-32UNF-1/4-U | 190707  | 1/4       | —            | 11.8 | 9.8 | No.10-32UNF | 3  | 31.8 | 28.8 | 10.8 | 13.4 | 7/16  |      |
| QSMK-1/8-1/4-U      | 190710  | 1/4       | —            | 11.8 | 9.8 | 1/8-27NPT   | 8  | 27.3 | 23.2 | 10.8 | 13.7 | 7/16  |      |
| QSMK-1/4-1/4-U      | 190712  | 1/4       | —            | 11.8 | 9.8 | 1/4-18NPT   | 11 | 27   | 21.2 | 12   | 13.4 | 9/16  |      |
| QSK-1/4-3/8-U       | 190714  | 3/8       | 16.8         | —    | —   | 1/4-18NPT   | 11 | 38.3 | 32.5 | 17   | 20.7 | 11/16 |      |
| QSK-3/8-3/8-U       | 190716  | 3/8       | 16.8         | —    | —   | 3/8-18NPT   | 12 | 39.8 | 33.7 | 17   | 20.7 | 11/16 |      |



### Previous Version

|             |         | Tube O.D. | Release ring |     |     | B    | ϕP   | C1   | C2   |
|-------------|---------|-----------|--------------|-----|-----|------|------|------|------|
| FESTO       | Part No | ϕD        | ϕZ           | X   | Y   |      |      |      |      |
| QSMK-1/8T-U | 190592  | 1/8       | —            | 9.8 | 7.8 | 36.8 | 8.5  | 12.8 | 11.6 |
| QSK-1/4T-U  | 190595  | 1/4       | 11.8         | —   | —   | 54.3 | 14.5 | 17   | 17   |

### Future Version

|             |         | Tube O.D. | Release ring |      |     | B    | ϕP  | C1   | C2   |
|-------------|---------|-----------|--------------|------|-----|------|-----|------|------|
| FESTO       | Part No | ϕD        | ϕZ           | X    | Y   |      |     |      |      |
| QSMK-1/8T-U | 190592  | 1/8       | —            | 9.8  | 7.8 | 36.8 | 8.5 | 13.2 | 11.6 |
| QSMK-1/4T-U | 190595  | 1/4       | —            | 11.8 | 9.8 | 39.8 | 11  | 13.4 | 11.7 |

### Known technical implications

- **Function**  
Currently no known implications.
- **Environment**  
Currently no known implications.
- **Interfacing**  
The design change has an effect on the interfaces (screw-in thread connector).

### Engineering Change Notification

ECN No  
238 175

### Affected products

| Part No   | Type      |
|-----------|-----------|
| see table | see table |

Project Title  
QS NPT/INCH Fittings

Date  
August 4th, 2021

### Estimated transition date

According to our current project schedule, the change will be productive approximately

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**3<sup>rd</sup> Quarter 2021**

Please note, that the transition date can vary due to technical reasons and production needs.

### Release

Esslingen – Germany, August 4<sup>th</sup>, 2021

  
Product Care

  
Corporate Quality